

Bonner zoologische Beiträge	Band 51 (2002)	Heft 4	Seiten 297–304	Bonn, Dezember 2003
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Alticinae from India and Pakistan Stored in the Collection of the Texas A. & M. University, U.S.A. (Coleoptera, Chrysomelidae)

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Abstract. A sample of Alticinae collected by C. W. & L. B. O'Brien and D. Boukal & Z. Kejval in India and Pakistan during the years 1985, 1993 and 1994 was studied. The 422 specimens belong to 32 genera and 84 species, among them three new species: *Clavicornaltica rileyi* nov. spec., *Ogloblinia keralaensis* nov. spec. and *Trachyaphthona indica* nov. spec.. Numerous species are for the first time recorded either from India or from Pakistan.

Key words. Insecta, Palearctic and Oriental region, taxonomy, new species, faunistics.

1. INTRODUCTION

From the Department of Entomology at Texas A. & M. University (TAMU), College Station (TX), I received a sample of Alticinae for study, collected by C. W. & L. B. O'Brien und D. Boukal & Z. Kejval in India and Pakistan during the years 1985, 1993 and 1994. The 422 specimens belong to 32 genera and 84 species, among them three new species: *Clavicornaltica rileyi* nov. spec., *Ogloblinia keralaensis* nov. spec. and *Trachyaphthona indica* nov. spec.. The material was very interesting because the Pakistan Alticinae fauna is poorly known. The only existing summary for Pakistan by HASHMI & TASHFEEN (1992) listed only 27 species. In this paper six additional species are given.

There does not exist a list of the Alticinae of India, except for SCHERER's (1969) extensive study. In my own personal records I have 361 species. In this paper 15 additional species are given, among them three new to science. Additional distributional data are presented in all cases where the species in question has not yet been recorded from India or Pakistan.

All material is listed in alphabetical order. Collecting data are given as on the label. The majority of the exemplars is stored in the collection of TAMU, but some specimens from longer series have been retained in the author's collection (MDGC).

2. RESULTS

Altica brevicosta Weise, 1922

6 x India, Kar., Mysore Road, 4 km SW Bangalore, X-2-1985, leg. C. W. & L. B. O'Brien

Altica cyanea (Weber, 1801)

4 x India, Kar., Mysore Road, 35 km SW Bangalore, X-1-1985, leg. C. W. & L. B. O'Brien

4 x India, Mahar, Table land above Panchgani, 1334 m, X-19-1985, leg. C. W. & L. B. O'Brien

1 x India, Tamil Nadu, Nilgiri Hills, 15 km SE Kota-

gini, Kunchappanai, 76°56'E/11°22'N, 900 m, XI-17-28-1993, leg. D. Boukal & Z. Kejval

Altica himalayensis Chen, 1936

1 x Pakistan, Punjab Prov., Muree Hills, 21 km SW Sunnybank, 1150 m, VIII-30-1985, leg. C. W. & L. B. O'Brien. Known from Bhutan, China (Tibet), India, Nepal and Taiwan; first record from Pakistan.

Altica spec. A

12 x India, Kashmir, Lake Anchar, IX-16-1985, leg. C. W. & L. B. O'Brien

Aphthona andrewesi Jacoby, 1898
7 x India, H. P., Kasauli, 6 km NE Chandigarh, 1850 m, IX-12-85, leg. C. W. & L. B. O'Brien
11 x India, H. P., Kasauli, 16 km NE Chandigarh, 1850 m, IX-12-85, leg. C. W. & L. B. O'Brien

Aphthona kanaraensis Jacoby, 1896

5 x India, Tamil Nadu, Nilgiri Hills, 15 km SE Kotagini, Kunchappanai, 76°56'E/11°22'N, 900 m, XI-17-28-1993, leg. D. Boukal & Z. Kejval

Aphthona spec. nr. *malaisei* Bryant, 1939

1 x India, Tamil Nadu, 9 km E Kodaikanal, IX-25-1985, leg. C. W. & L. B. O'Brien

Aphthona nigrilabris Duvivier, 1892

1 x India, Tamil Nadu, Manjahir Dam Lake, 200 m, Kombaianicut, 75 km NW Madurai, IX-25-1985, leg. C. W. & L. B. O'Brien

2 x India, Tamil Nadu, Nilgiri Hills, 15 km SE Kotagini, Kunchappanai, 76°56'E/11°22'N, 900 m, XI-17-28-1993, leg. D. Boukal & Z. Kejval

Aphthona opaca Allard, 1889

2 x 25.9.1985) India, Tamil Nadu, 46 km E Kodaikanal, IX-25-1985, leg. C. W. & L. B. O'Brien

Aphthona spec. A

2 x India, Tamil Nadu, Kodaikanal, 2200 m, XI-24-1985, leg. C. W. & L. B. O'Brien

Aphthonoides ovipennis Heikertinger, 1940

1 x India, Tamil Nadu, Nilgiri hills, Kotagiri env., Elk Falls, 76°52'E/11°23'N, XI-16-1993, leg. D. Boukal & Z. Kejval

Aphthonoides rugiceps Wang, 1992

1 x India, Tamil Nadu, Nilgiri hills, Kotagiri env., Elk Falls, 76°52'E/11°23'N, XI-16-1993, leg. D. Boukal & Z. Kejval

Known from China (Yunnan, WANG 1992); first record from India.

Argopistes atricollis Chen, 1934

1 x India, H. P., 1 ml. E Kasauli, IX-12-85, leg. C. W. & L. B. O'Brien

Benedictus spec. nr. flavicalli Scherer, 1989

4 x India, Tamil Nadu, Kodaikanal, 2200 m, XI-24-1985, leg. C. W. & L. B. O'Brien

Chabria decemplagiata Maulik, 1926

1 x India, Kerala, Palani Hills, 30 km E Munnar Top Station, 1900 m, 77°15'E/10°08'N, XI-3-1993, leg. D. Boukal & Z. Kejval

Chaetocnema belli Jacoby, 1904

1 x India, New Delhi (Wazirabad), 10 km N of main City, IX-4-1985, leg. C. W. & L. B. O'Brien

3 x (16.11.1993) India, Tamil Nadu, Nilgiri hills, Kotagiri env., Elk Falls, 76°52'E/11°23'N, XI-16-1993, leg. D. Boukal & Z. Kejval

Chaetocnema bretinghami Baly, 1877

1 x Pakistan, Punjab Prov., Rawal Lake, Dam, IX-1-1985, leg. C. W. & L. B. O'Brien

3 x Pakistan, Punjab Prov., Rawalpindi Ajub NP, VIII-31-1985, leg. C. W. & L. B. O'Brien

1 x India, Tamil Nadu, Nilgiri Hills, 15 km SE Kotagini, Kunchappanai, 76°56'E/11°22'N, 900 m, XI-17-28-1993, leg. D. Boukal & Z. Kejval

Known from India (Bihar, Kerala, WARCHAŁOWSKI 1973); first record from Pakistan.

Chaetocnema concinnipennis Baly, 1877

4 x India, Kar., Mysore Road, 35 km SW Bangalore, X-1-1985, leg. C. W. & L. B. O'Brien

1 x India, Hindon River, 4 km W Ghaziabad, IX-4-1985, leg. C. W. & L. B. O'Brien

Chaetocnema gracilis Motschulsky, 1858) (= *indica* Weise, 1916)

3 x Pakistan, Punjab Prov., Rawal Lake, Dam, IX-1-1985, leg. C. W. & L. B. O'Brien

Known from Bangladesh, Bhutan, India, Nepal, N-Vietnam (WARCHAŁOWSKI 1973); first record from Pakistan.

Chaetocnema harita Maulik, 1926

4 x India, Kerala, Cardamon hills, 15 km SE Munnar, Kallar Valley, 76°58'E/10°02'N, XII-18-1993, leg. D. Boukal & Z. Kejval.

Chaetocnema kumaonensis Scherer, 1969

6 x India, Kerala, 5 km S Rami (rice fields), 76°47'E/09°21'N, I-1-1994, leg. D. Boukal & Z. Kejval

2 x India, Kerala, 20 km SE Trivandrum, Poovar, 77°04'E/08°19'N, I-14-15-1994, leg. D. Boukal & Z. Kejval

Chaetocnema longipunctata Maulik, 1926

1 x India, Kerala, Palani Hills, 30 km E Munnar Top Station, 1900 m, 77°15'E/10°08'N, XI-3-1993, leg. D. Boukal & Z. Kejval.

Chaetocnema modiglianii Jacoby, 1896

1 x India, Kerala, 5 km S Rami (rice fields), 76°47'E/09°21'N, I-1-1994, leg. D. Boukal & Z. Kejval

2 x India, Hindon River, 4 km W Ghaziabad, IX-4-1985, leg. C. W. & L. B. O'Brien

1 x India, Tamil Nadu, Nilgiri Hills, 15 km SE Kotagini, Kunchappanai, 76°56'E/11°22'N, 900 m, XI-17-28-1993, leg. D. Boukal & Z. Kejval

2 x India, HP, Simla rd., 33 km NE Chandigarh, 1132 m, IX-10-1985, leg. C. W. & L. B. O'Brien

Known from Bangladesh, Bhutan, Indonesia (Sumatra); first record from India.

Chaetocnema nebulosa Weise, 1886

28 x Pakistan, Punjab Prov., Rawal Lake, Dam, IX-1-1985, leg. C. W. & L. B. O'Brien

Known from Daghestan, Iran, Kazakhstan, Kirghizstan, Mongolia; first record from Pakistan.

Chaetocnema nepalensis Scherer, 1969

1 x Pakistan, Punjab Prov., Rawal Lake, Dam, IX-1-1985, leg. C. W. & L. B. O'Brien

5 x India, Hindon River, 4 km W Ghaziabad, IX-4-1985, leg. C. W. & L. B. O'Brien

1 x India, W Bengal, 35 km NE Calcutta, 6 km W Barasat, IX-20-1985, leg. C. W. & L. B. O'Brien

1 x India, Tamil Nadu, Alagar Hills, 21 km N Madurai, IX-28-1985, leg. C. W. & L. B. O'Brien

4 x India, Hindon River, 4 km W Ghaziabad, IX-4-1985, leg. C. W. & L. B. O'Brien

Known from Nepal; first record from India and Pakistan.

Chaetocnema punctatula Warchałowski, 1973

2 x Pakistan, Punjab Prov., Rawal Lake, Dam, IX-1-1985, leg. C. W. & L. B. O'Brien

1 x India, Maharashtra, Manjri Farm, 13 km NE Pune, X-16-1985, leg. C. W. & L. B. O'Brien

1 x India, Tamil Nadu, Nilgiri Hills, 15 km SE Kotagini, Kunchappanai, 76°56'E/11°22'N, 900 m, XI-17-28-1993, leg. D. Boukal & Z. Kejval

1 x India, Hindon River, 4 km W Ghaziabad, IX-4-1985, leg. C. W. & L. B. O'Brien

2 x India, W Bengal, 35 km NE Calcutta, 6 km W Barasat, IX-20-1985, leg. C. W. & L. B. O'Brien

1 Pakistan, Punjab Prov., Rawalpindi Ajub NP, VIII-31-1985, leg. C.W. & L. B. O'Brien

Known from N-Vietnam (WARCHAŁOWSKI 1973); first record from India and Pakistan.

***Chaetocnema shanensis* Bryant, 1939**

9 x India, Hindon River, 4 km W Ghaziabad, IX-4-1985, leg. C. W. & L. B. O'Brien

6 x Pakistan, Punjab Prov., Rawalpindi Ajub NP, VIII-31-1985, leg. C. W. & L. B. O'Brien

1 x India, New Delhi (Wazirabad), 10 km N of main City, IX-4-1985, leg. C. W. & L. B. O'Brien

Known from Burma Nepal; first record from India and Pakistan.

***Chaetocnema spec. nr. shanensis* Bryant, 1939**

1 x India, Hindon River, 4 km W Ghaziabad, IX-4-1985, leg. C. W. & L. B. O'Brien

***Chaetocnema simplicifrons* Baly, 1876**

1 x India, W Bengal, 35 km NE Calcutta, 6 km W Barasat, IX-20-1985, leg. C. W. & L. B. O'Brien

Known from China (Kiangsi, N-Vietnam); first record from India.

***Chaetocnema singala* Baly, 1876**

1 x India, Tamil Nadu, Nilgiri Hills, 15 km SE Kotagini, Kunchappanai, $76^{\circ}56'E/11^{\circ}22'N$, 900 m, XI-17-28-1993, leg. D. Boukal & Z. Kejval

Chaetocnema spec. A

2 x Pakistan, Punjab Prov., Rawal Lake, Dam, IX-1-1985, leg. C. W. & L. B. O'Brien

Chaetocnema spec. B

1 x India, Tamil Nadu, Nilgiri Hills, 15 km SE Kotagini, Kunchappanai, $76^{\circ}56'E/11^{\circ}22'N$, 900 m, XI-17-28-1993, leg. D. Boukal & Z. Kejval

1 x India, H. P., Kasauli, 6 km NE Chandigarh, 1850 m, IX-12-85, leg. C. W. & L. B. O'Brien

***Chalaenosoma antennata* Jacoby, 1903**

11 x India, Tamil Nadu, Kodaikanal, 2200 m, XI-24-1985, leg. C. W. & L. B. O'Brien

***Chalaenosoma maduraensis* Scherer, 1969**

1 x India, Tamil Nadu, 2200 m, XI-24-1985, leg. C. W. & L. B. O'Brien

***Chalaenosoma metallica* Jacoby, 1893**

6 x India, Tamil Nadu, Nilgiri Hills, 15 km SE Kotagini, Kunchappanai, $76^{\circ}56'E/11^{\circ}22'N$, 900 m, XI-17-28-1993, leg. D. Boukal & Z. Kejval

***Chalaenosoma viridis* Jacoby, 1903**

3 x India, Tamil Nadu, Kodaikanal, 2200 m, XI-24-1985, leg. C. W. & L. B. O'Brien

***Clavicornaltica rileyi* nov. spec. (Figs. 1-5, 18)**

Material: Holotype (σ): India, Kerala, Cardamon hills, 15 km SE Munnar, Kallar Valley, $76^{\circ}58'E/10^{\circ}02'N$, XII-18-1993, leg. D. Boukal & Z. Kejval; (TAMU); Paratypes: 5 ditto (2 specimens TAMU, 2 $\sigma\sigma$ & 1 φ MDGC).

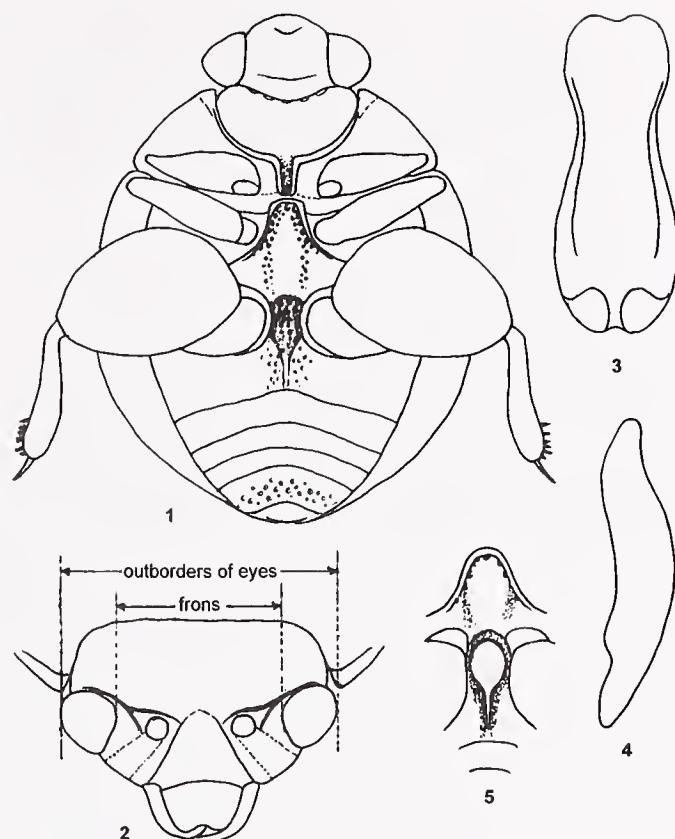


Fig. 1. *Clavicornaltica rileyi* nov. spec., ventral side.

Fig. 2. *Clavicornaltica rileyi* nov. spec., head.

Fig. 3. *Clavicornaltica rileyi* nov. spec., aedeagus, ventral side, L. 0,6 mm.

Fig. 4. *Clavicornaltica rileyi* nov. spec., aedeagus, profile.

Fig. 5. *Clavicornaltica loebli*, ventral side, mesosternum, metasternum.

Description (based on 50 x magnification): 1,5 x 1,2 mm; somewhat spherical, blackish-brown with underside, labrum, legs and basal articles of antennae much more lightened. Distance between the outborders of eyes 1,7 x as broad as frons (Fig. 2). Head smooth, vertex with scattered very fine punctures. Antennal calli lacking. The sharply impressed antennal furrows run directly to the upper border of the antennal sockets. Clypeus scarcely separated from frons. In the space between antennal socket and eye runs a sharp furrow, branching off from the antennal furrow. The space between this furrow and the eye is vaulted and smoothly polished. Below antennal sockets a deep impression for the first antennal segment in repose which turns obliquely outside (Fig. 2, dotted lines). The small eyes are coarsely faceted. Labrum broader than long and weakly sinuated. The club of the antennae is compact, the last article short; hairs do not exceed their articles in length. Pronotum 1,86 x as broad as long in the middle, hind corners obtuse, side margins thickened in their anterior half and separated from the disk by a sharp rim. Somewhat behind the middle is a

coarse pore, bearing a very long seta. Another small pore with a much shorter seta lies in the hind angle. The basal corners are obtuse and edged; those edges are provided with a row of sharp points which become extinct to the middle of pronotum. Scutellum small and triangularly shaped.

Pronotum and elytra are smoothly polished. In a certain light one can see on the elytra only traces of points. Wingless. The smooth epipleurae are very broad, but they narrow rather abruptly subapically. Anterior coxal cavities open behind, prosternum narrow and deeply sulcated, its margins run parallel. Metasternum margined and elevated in middle and clearly punctured. At middle it is projected so that it covers the mesosternum completely. The first abdominal sternite is between the hind coxae shaped like a bulge, then in the posterior half narrowed to a sharp keel which extends to the hind border; last abdominal sternite clearly punctured (Fig. 1).

Sexual differences: in ♂♂ 1st segment of front and middle tarsi a little broader than 3rd. Aedeagus (Figs. 3, 4). In ♀♀ 1st segment of front and middle tarsi somewhat narrower than 3rd. Spermatheca (Fig. 18). Last abdominal sternite in ♂♂ emarginated (Fig. 1), in ♀♀ equally rounded.

Discussion: Up to now, 15 species of *Clavicornaltica* are described (MEDVEDEV 1996). Four of them stand near the new species: *Cl. australis* Konstantinov, *Cl. besucheti* Scherer, *Cl. loebli* Scherer and *Cl. tarsalis* Medvedev. Contrary to *Cl. australis*, *Cl. rileyi* has a very long seta in the middle of the pronotum's side margin and short hairs on the antennal club. In *Cl. besucheti*, the distance between the outer margins of eyes ±1.35x as broad as frons, in *Cl. rileyi*: 1.70x. Contrary to *Cl. loebli*, the head of *Cl. rileyi* is smoothly polished, whereas in *Cl. loebli* it is clearly shagreened, beyond this *Cl. loebli* has a differently shaped keel on the first abdominal sternite (Fig. 5) and a smooth metasternum. Also contrary to *Cl. tarsalis*, *Cl. rileyi* has a distinctly punctured metasternum.

Distribution: India (Kerala)

Etymology: Dedicated to Edward Riley, who gave me the opportunity to study this interesting material.

***Clavicornaltica* spec. nr. *pusilla* Scherer, 1974**

3 x India, Kerala, Cardamon hills, 15 km SE Munnar, Kallar Valley, 76°58'E/10°02'N, XII-18-1993, leg. D. Boukal & Z. Kejval

***Elytropachys viridescens* Motschulsky, 1866**

1 x India, Kerala, Cardamon hills, 15 km SE Munnar, Kallar Valley, 76°58'E/10°02'N, XII-18-1993, leg. D. Boukal & Z. Kejval

Known from Sri Lanka; first record from India.

***Erystus andamanensis* Maulik, 1926**

1 x India, Kerala, Cardamon hills, 15 km SE Munnar,

Kallar Valley, 76°58'E/10°02'N, XII-18-1993, leg. D. Boukal & Z. Kejval

***Euphitrea indica* Jacoby, 1904**

1 x India, Kerala, Cardamon hills, 15 km SE Munnar, Kallar Valley, 76°58'E/10°02'N, XII-18-1993, leg. D. Boukal & Z. Kejval

***Hemipyxis intermedia* (Jacoby, 1903)**

7 x India, Tamil Nadu, Kodaikanal, 2200 m, XI-24-1985, leg. C. W. & L. B. O'Brien

1 x India, Kerala, 6 km W Walayar (Malabar Cement Co, Forest), X-12-1985, leg. C. & L. O'Brien

***Herinaeophaga ruficollis* (Lucas, 1849)**

2 x India, Mahar, Manjri Farm, 13 km NE Pune, X-16-1985, leg. C. W. & L. B. O'Brien

***Hespera rufipes* Maulik, 1926**

1 x India, H. P., I ml. E Kasauli, IX-12-85, leg. C. W. & L. B. O'Brien

11 x India, H. P., Kasauli, 6 km NE Chandigarh, 1850 m, IX-12-85, leg. C. W. & L. B. O'Brien

7 x India, H. P., Kasauli, 16 km NE Chandigarh, 1850 m, IX-12-85, leg. C. W. & L. B. O'Brien

***Hyphasis discipennis* (Jacoby, 1903)**

1 x India, Tamil Nadu, 10 km W Kalakkadu, 77°30'E/08°31'N, I-6.-13.-1994, leg. D. Boukal & Z. Kejval

***Hyphasis discoidalis* Jacoby, 1896**

1 x India, Kerala, 14 km S Kottayam (13 km S Mavattupuz), X-10-1985, leg. C. & L. O'Brien

***Hyphasis nilgiriensis* Scherer, 1969**

3 x India, Kerala, 14 km S Kottayam (13 km S Mavattupuz), X-10-1985, leg. C. & L. O'Brien

***Hyphasis sita* Maulik, 1926**

6 x India, Kar., Mysore Road, 35 km SW Bangalore, X-1-1985, leg. C. W. & L. B. O'Brien

Known from Sri Lanka; first record from India.

***Lanka bicolor* (Chûjô, 1937)**

1 x India, Kerala, 14 km S Kottayam (13 km S Mavattupuz), X-10-1985, leg. C. & L. O'Brien

Known from Taiwan; first record from India.

***Letzuanus depressa* Chen, 1934**

1 x India, Kar., Mysore Road, 4 km SW Bangalore, X-2-1985, leg. C. W. & L. B. O'Brien

***Longitarsus* spec. nr. *bimaculatus* (Baly, 1874)**

1 x India, H. P., 16 km E Kasauli, 1311 m, IX-12-85, leg. C. W. & L. B. O'Brien

***Longitarsus birmanicus* Jacoby, 1892**

5 x India, Tamil Nadu, Nilgiri Hills, 15 km SE Kotagiri, Kunchappanai, 76°56'E/11°22'N, 900 m, XI-17-28-1993, leg. D. Boukal & Z. Kejval

1 x India, Kerala, Palani Hills, 30 km E Munnar Top Station, 1900 m, 77°15'E/10°08'N, XI-3-1993, leg. D. Boukal & Z. Kejval

1 x India, Tamil Nadu, Nilgiri hills, Kotagiri env., Elk Falls, 76°52'E/11°23'N, XI-16-1993, leg. D. Boukal & Z. Kejval

1 x India, Tamil Nadu, Kodaikanal, 2200 m, XI-24-1985, leg. C. W. & L. B. O'Brien

***Longitarsus* spec. nr. *championi* Maulik, 1926**

1 x Pakistan, Punjab Prov., Rawalpindi Ajub NP, VIII-31-1985, leg. C. W. & L. B. O'Brien

2 x Pakistan, Punjab Prov., Rawal Lake, Dam, IX-1-1985, leg. C. W. & L. B. O'Brien

***Longitarsus hina* Maulik, 1926**

2 x India, Kerala, Palani Hills, 30 km E Munnar Top Station, 1900 m, 77°15'E/10°08'N, XI-3-1993, leg. D. Boukal & Z. Kejval

***Longitarsus longicornis* Jacoby, 1887**

1 x India, Kerala, Cardamon hills, 15 km SE Munnar, Kallar Valley, 76°58'E/10°02'N, XII-18-1993, leg. D. Boukal & Z. Kejval

Known from Sri Lanka; first record from India.

***Longitarsus nigronotatus* Jacoby, 1896**

1 x India, Kerala, 14 km S Kottayam (13 km S Mavattupuz), X-10-1985, leg. C. & L. O'Brien

Known from Burma; first record from India.

***Longitarsus pandura* Maulik, 1926**

7 x India, Tamil Nadu, Nilgiri hills, Kotagiri env., Elk Falls, 76°52'E/11°23'N, XI-16-1993, leg. D. Boukal & Z. Kejval

Known from Sri Lanka; first record from India.

***Longitarsus rangoonensis* Jacoby, 1892**

1 x India, Tamil Nadu, Nilgiri hills, Kotagiri env., Elk Falls, 76°52'E/11°23'N, XI-16-1993, leg. D. Boukal & Z. Kejval

2 x India, Tamil Nadu, Nilgiri Hills, 15 km SE Kotagini, Kunchappanai, 76°56'E/11°22'N, 900 m, XI-17-28-1993, leg. D. Boukal & Z. Kejval

***Longitarsus rohtangensis* Shukla, 1960**

1 x India, Kerala, Palani Hills, 30 km E Munnar Top Station, 1900 m, 77°15'E/10°08'N, XI-3-1993, leg. D. Boukal & Z. Kejval

***Longitarsus sundara* Maulik, 1926**

12 x India, Tamil Nadu, Kodaikanal, 2200 m, XI-24-1985, leg. C. W. & L. B. O'Brien

***Longitarsus* spec. A**

1 x India, Maharashtra, Manjri Farm, 13 km NE Pune, X-16-1985, leg. C. W. & L. B. O'Brien

***Longitarsus* spec. B**

2 x India, H. P., 1 ml. E Kasauli, IX-12-85, leg. C. W. & L. B. O'Brien

***Luperomorpha viridipennis* Scherer, 1969**

5 x India, H. P., Kasauli, 6 km NE Chandigarh, 1850 m, IX-12-85, leg. C. W. & L. B. O'Brien

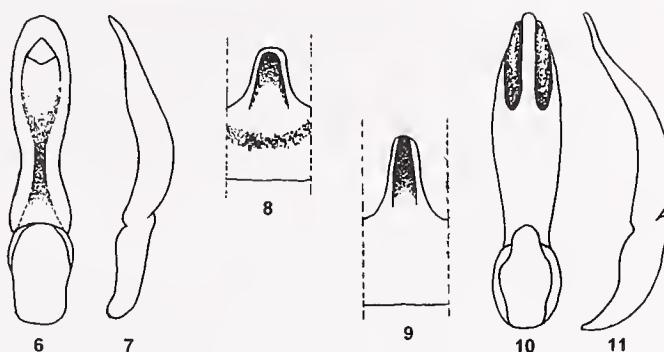


Fig. 6. *Obloblinia keralaensis* nov. spec., aedeagus, ventral side.

Fig. 7. *Obloblinia keralaensis* nov. spec., aedeagus, profile.

Fig. 8. *Obloblinia keralaensis* nov. spec., top of metasternum.

Fig. 9. *Obloblinia atra*, aedeagus, ventral side, L. 0,66 mm.

Fig. 10. *Obloblinia atra*, aedeagus, profile.

Fig. 11. *Obloblinia atra*, top of metasternum.

***Luperomorpha vittata* Duvivier, 1892**

1 x India, Tamil Nadu, Nilgiri Hills, 15 km SE Kotagini, Kunchappanai, 76°56'E/11°22'N, 900 m, XI-17-28-1993, leg. D. Boukal & Z. Kejval

***Manobidia* spec. A**

1 x India, Tamil Nadu, 41 km E Kodaikanal, Falls View, IX-29-1985, leg. C. W. & L. B. O'Brien

***Microcrepis polita* Chen, 1933**

6 x India, T. N., Pillar Rocks, 7 km SW Kodaikanal, IX-24, 1985, leg. C. W. & L. B. O'Brien

30 x India, Tamil Nadu, 2200 m, XI-24-1985, leg. C. W. & L. B. O'Brien

***Neocrepidodera* nr. *orientalis* (Jacoby, 1892)**

1 x India, H. P., Kasauli, 16 km NE Chandigarh, 1850 m, IX-12-85, leg. C. W. & L. B. O'Brien

***Nisotra apicefulva* (Bryant, 1941)**

2 x India: Kerala Peringottukraa, 14 km W Trichur, X-11-1985, leg. C. W. & L. B. O'Brien

***Nisotra cardoni* Jacoby, 1900**

3 x India, Kerala, 6 km W Walayar (Malabar Cement Co, Forest), X-12-1985, leg. C. & L. O'Brien

2 x India, Karnataka, Nandi Hills, 1100 m, X-5-1985, leg. C. W. & L. B. O'Brien

1 x India, Tamil Nadu, Nilgiri Hills, 15 km SE Kotagini, Kunchappanai, 76°56'E/11°22'N, 900 m, XI-17-28-1993, leg. D. Boukal & Z. Kejval

***Nisotra madurensis* Jacoby, 1896**

3 x India, Kerala, 6 km W Walayar (Malabar Cement Co, Forest), X-12-1985, leg. C. & L. O'Brien

3 x India, Kerala, 14 km S Kottayam (13 km S Mavattupuz), X-10-1985, leg. C. & L. O'Brien

4 x India, Tamil Nadu, Nilgiri Hills, 15 km SE Kotagini, Kunchappanai, $76^{\circ}56'E/11^{\circ}22'N$, 900 m, XI-17-28-1993, leg. D. Boukal & Z. Kejval

1 x India, Tamil Nadu, Nilgiri Hills, 15 km SE Kotagini, Kunchappanai, $76^{\circ}56'E/11^{\circ}22'N$, 900 m, XII-18-1993, leg. D. Boukal & Z. Kejval

Nisotra semicoerulea Jacoby, 1903

13 x India, Tamil Nadu, 10 km W Kalakkadu, $77^{\circ}30'E/08^{\circ}31'N$, I-6.-13.-1994, leg. D. Boukal & Z. Kejval

2 x India, Tamil Nadu, 9 km E Kodaikanal, IX-25-1985, leg. C. W. & L. B. O'Brien

Nonarthira birmamicum (Jacoby, 1892)

6 x India, Kerala, Cardamon hills, 15 km SE Munnar, Kallar Valley, $76^{\circ}58'E/10^{\circ}02'N$, XII-18-1993, leg. D. Boukal & Z. Kejval

Ogloblinia keralaensis nov. spec. (Figs. 7-9)

Material: Holotype (σ): India, Kerala, 14 km S Kotayami (13 km S Mavattupuz), X-10-1985, leg. C. & L. O'Brien (TAMU); paratypes: 4 x like holotype; 1 σ 1 ♀ India, Kerala, Nayyar W. L. San, 08.02.2002, leg. Prathapan (TAMU, coll. Döberl, and coll. Prathapan)

Description (based on 50x magnification): L. 2,2 mm, B. 1,1 mm (holotype). Uniformly black; legs and antennae yellow, hind femora and base of fore- and middle femora nearly black. The outermost ends of hind femora and all trochanters red-yellow. Vertex smooth, but near the upper border of eyes a little seta bearing pore. Frontal lines sharply impressed, antennal calli triangular and narrow, reaching the eyes. The frontal ridge is about as broad as the third article of the antennae. It separates the antennal calli and is widened to the clypeus. The labrum is about three times as broad as long. Length of antennal segments (holotype): 16:10:12:14:14:12:16:15:15: 14:18 (1. 0.01 mm). The last 5-6 articles \pm thickened. Pronotum 1,45 times as broad as long, smooth but provided with microscopic punctures. Near the base and parallel to it with a weakly impressed and distinctly punctured furrow; its ends are directed to the basal margin. Sides of pronotum weakly arched, frontal corners oblique and distinctly toothed. Posterior corners sharp, the sides before them somewhat sinuated. Scutellum triangular, rounded and reticulated. Elytra with distinct humeral calli and with rather irregular rows of fine punctures. The anterior part of the first abdominal sternite is between the hind coxae somewhat semicircularly sulcated (Fig. 8).

Sexual differences: in $\sigma\sigma$ 1st segment of front tarses nearly as broad as 3rd. in ♀♀ they are distinctly narrower. Aedeagus (Figs. 6, 7).

Discussion: *O. keralaensis* is very similar to *O. atra* Chen, 1934. Both species have a similarly hollowed first abdominal sternite (Figs. 8, 9), but *O. keralaensis* has a shallow semicircular furrow. *O. keralaensis* can

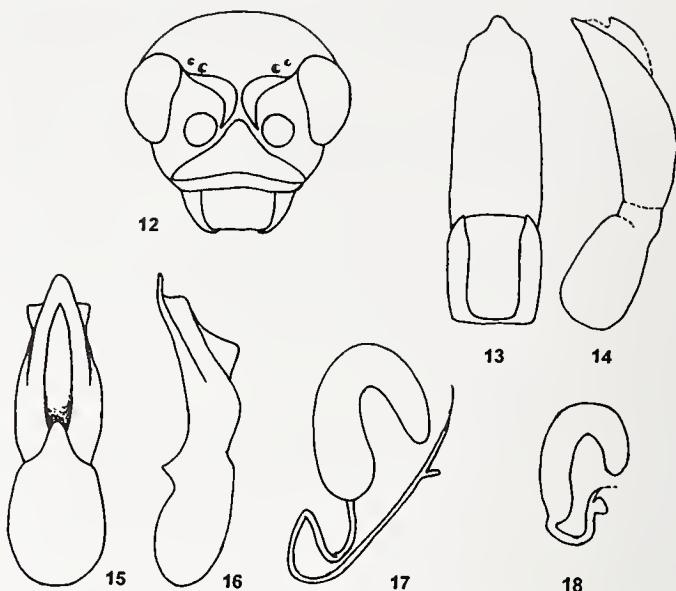


Fig. 13. *Trachyaphthona fulvicornis*, aedeagus, ventral side (ex Scherer, 1979 a).

Fig. 14. *Trachyaphthona fulvicornis*, aedeagus, profile (ex Scherer, 1979 a).

Fig. 15. *Trachyaphthona indica* nov. spec., aedeagus, ventral side, L. 0,8 mm.

Fig. 16. *Trachyaphthona indica* nov. spec., aedeagus, profile.

Fig. 17. *Trachyaphthona indica* nov. spec., spermatheca.

Fig. 18. *Clavicornaltica rileyi* nov. spec., spermatheca.

be distinguished from *O. atra* by its more weakly antebasal impression, the more finely and irregularly punctured elytra and its pure black colour. In *O. atra* one can see on the elytra a very faint bluish lustre. Beyond that all the aedeagi (*O. atra*: Figs. 10, 11) are differently shaped.

Distribution: India (Kerala)

Etymology. Derived from Kerala, terra typica of the new species.

Ogloblinia nigripennis (Motschulsky, 1866)

3 x India, Kar., Mysore Road, 35 km SW Bangalore, X-1-1985, leg. C. W. & L. B. O'Brien

Known from Burma (Tenasserim), Sri Lanka; first record from India.

Ogloblinia spec. A

1 x India, HP, Simla rd., 33 km NE Chandigarh, 1132 m, IX-10-1985, leg. C. W. & L. B. O'Brien

Phygasia silacea (Illiger, 1807)

3 x India, Tamil Nadu, Alagar Hills, 21 km N Madurai, IX-28-1985, leg. C. W. & L. B. O'Brien

1 x India, Kar., Mysore Road, 4 km SW Bangalore, X-2-1985, leg. C. W. & L. B. O'Brien

Phyllotreta chotanica Duvivier, 1892

1 x India, Tamil Nadu, Nilgiri hills, Kotagiri env., Elk

Falls, 76°52'E/11°23'N, XI-16-1993, leg. D. Boukal & Z. Kejval

2 x India, Kerala, 5 km S Rami (rice fields), 76°47'E/09°21'N, I-1-1994, leg. D. Boukal & Z. Kejval

Psylliodes chlorophanus Erichson, 1842

1 x India, Kerala, Palani Hills, 30 km E Munnar Top Station, 1900 m, 77°15'E/10°08'N, XI-3-1993, leg. D. Boukal & Z. Kejval

Psylliodes viridanus Motschulsky, 1858

6 x India, Kerala, Palani Hills, 30 km E Munnar Top Station, 1900 m, 77°15'E/10°08'N, XI-3-1993, leg. D. Boukal & Z. Kejval

1 x India, H. P., Kasauli, 6 km NE Chandigarh, 1850 m, IX-12-85, leg. C. W. & L. B. O'Brien

Sphaeroderma gressitti Scherer, 1969

1 x India, H. P., Kasauli, 16 km NE Chandigarh, 1850 m, IX-12-85, leg. C. W. & L. B. O'Brien

Sphaeroderma minutum Chen, 1934

1 x India, Tamil Nadu, 9 km E Kodaikanal, IX-25-1985, leg. C. W. & L. B. O'Brien

Trachyaphthona fusca (Scherer, 1969)

1 x India, Kerala, Cardamon hills, 15 km SE Munnar, Kallar Valley, 76°58'E/10°02'N, XII-18-1993, leg. D. Boukal & Z. Kejval

***Trachyaphthona indica* nov. spec.** (Figs. 12, 14-16)

Material: Holotype (♂): India, Tamil Nadu, Kodaikanal, 2200 m, XI-24-1985, leg. C. W. & L. B. O'Brien (TAMU); paratypes: 17 x ditto (TAMU, Coll. Scherer, and MDCG)

Description (based on 50x magnification): L. 2,2-2,4 mm, B. 1,2-1,4 mm (holotype: 2,2 mm x 1,2 mm). Uniformly yellow-brown. Suture of elytra weakly darkened, the darkening triangularly widened from the middle of elytra to the basis. Vertex and hind femora in their apical half darkened; antennae clear, the last 4-5 articles more darkened than the basal ones.

Vertex impunctate, antennal calli sickle-shaped, their ends extending to the interantennal space, where they are separated by the upper end of the clypeus. (Fig. 12); limited behind by a sharp impression, and separated one from the other by a deep furrow. The clypeus is smooth, triangularly widened, and bent before the insertions of the antennae, in side view forming an obtuse angle.

Length of antennal segments (holotype): 14:11:10:13:14: 13:14:13:12:12:20 (1. 0,01 mm); the articles from the 7th onward somewhat thickened.

Pronotum 1,6 times as broad as long, broadest near the base. Sides straight, the anterior angles obtuse and provided with a distinct setifere denticle. Basal border

somewhat projected to an equal arc. Hind corners broadly rounded, the disk with greasy glance and with scattered microscopical punctures. Humeral calli distinct, elytra densely and confusedly but superficially punctured.

Sexual differences: in ♂♂ 1st segment of front and middle tarsi nearly as broad as 3rd. Aedeagus (Figs. 15, 16). In ♀♀ 1st segment of front and middle tarsi distinctly narrower than 3rd. Spermatheca (Fig. 17).

Discussion: *Trachyaphthona indica* is closely related to the North-Indian *T. fulvicornis* (Scherer, 1979). Contrary to the latter it has no antebasal impression, and the punctuation on its elytra is fine, whereas in *T. fulvicornis* the punctures of the elytra are distinctly impressed and darkened. Above all the aedeagi of both species are differently shaped (*T. fulvicornis* Figs. 13, 14).

Distribution: India

Etymology. Derived from India, terra typica of the new species.

Xuthea metallica Jacoby, 1896

1 x India, Kerala, Palani Hills, 30 km E Munnar Top Station, 1900 m, 77°15'E/10°08'N, XI-3-1993, leg. D. Boukal & Z. Kejval

Acknowledgements. I am greatly indebted to Edward Riley, TAMU, who gave me the opportunity for studying this interesting material, but also to my dear friend Gerhard Scherer, Wolfratshausen/Germany, for his valuable support.

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Received: 13.11.2001

Revised: 14.01.2003

Accepted: 27.01.2003

Corresponding editor: M. SCHMITT

ZOBODAT - www.zobodat.at

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Zeitschrift/Journal: [Bonn zoological Bulletin - früher Bonner Zoologische Beiträge.](#)

Jahr/Year: 2003

Band/Volume: [51](#)

Autor(en)/Author(s): Doeberl Manfred

Artikel/Article: [Alticinae from India and Pakistan Stored in the Collection of the Texas A. & M. University, U.S.A. \(Coleoptera, Chrysomelidae\) 297-303](#)